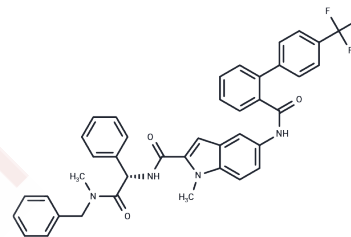


Dirlotapide

Chemical Properties

CAS No. :	481658-94-0
Formula:	C40H33F3N4O3
Molecular Weight:	674.71
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Dirlotapide (CP742033) is an intestinal selective microsomal triglyceride transfer protein (MTP) inhibitor. It reduces body weight in diabetic dogs. Dirlotapide reduces food intake in a dose-dependent manner, possibly by increasing the release of peptide YY into the circulation.
Targets(IC50)	MTP, MTP
In vivo	Dirlotapide (0.5 mg/kg; oral; dogs) results in a high rate of weight loss (3.3% weekly) anorexia, emesis, and loose stools for some dogs. Dirlotapide produces weight loss by both reducing appetite (about 90% of the weight loss activity) and by increasing fecal fat excretion (about 10% of the weight loss activity).[1] Dirlotapide (0.3 mg/kg; oral; once daily; dogs) has a small but significant (P=0.018) decrease (6.16 ± 2.22%, mean ± SD) in crude fat digestibility compared with the placebo-treated food-restricted dogs, but no difference in crude protein, dry matter, or energy digestibility is observed. Dirlotapide effectively reduces appetite and energy intake without affecting nutrient digestibility, except for a minimal decrease in fat digestibility. [2]

Solubility Information

Solubility	DMSO: 262.5 mg/mL (389.06 mM), Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4821 mL	7.4106 mL	14.8212 mL
5 mM	0.2964 mL	1.4821 mL	2.9642 mL
10 mM	0.1482 mL	0.7411 mL	1.4821 mL
50 mM	0.0296 mL	0.1482 mL	0.2964 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wren JA, et al. Biologic activity of dirlotapide, a novel microsomal triglyceride transfer protein inhibitor, for weight loss in obese dogs. J Vet Pharmacol Ther. 2007 Aug;30 Suppl 1:33-42.

Kirk CA, et al. Influence of dirlotapide, a microsomal triglyceride transfer protein inhibitor, on the digestibility of a dry expanded diet in adult dogs. J Vet Pharmacol Ther. 2007 Aug;30 Suppl 1:66-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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